

SUBJECT	CAGE CODE	DATE	SECTION	PAGE	REVISION
PROCEDURE	64818	11/6/02		1 of 2	A

1.0 INTRODUCTION

FCI microcontroller-based flowmeters (e.g. AF88 series, GF90 series, MT91, FlexMASSter series) are equipped with serial communications ports that support RS-232 and in some cases RS-485 communications. In all instruments this serial communications port is formatted to communicate with an FCI FC88 handheld terminal. This procedure is provided to allow the user to interface an FCI flowmeter directly to a PC configured to emulate as an FC88 or, where the instrument provides a Command Line Interface (CLI) capability (e.g. MT91, FlexMASSter) as an intelligent terminal.

2.0 ELECTRICAL INTERFACE

The electrical interface to the PC is to be done to one of the PC's COM ports per the appropriate wiring diagram in the instrument's Installation Operation and Maintenance Manual.

If an adapter board (P/N 016932-01/-02) is used to interface to the flow meter (e.g. FlexMASSter), verify the switch on the adapter board is in the correct position for the selected mode. For the terminal mode (e.g. FC88 emulation), both switch positions must be depressed on the side marked "TERM". For the CLI mode, both switch positions must be depressed on the side marked "CLI".

3.0 WINDOWS 3.1X SETUP

The Terminal program is most conveniently used in Windows 3.1X. Outlined below are specific instructions on how to setup and use Terminal. For detailed information on Windows 3.1X and Terminal, consult HELP or the User's Manual for Windows 3.1X.

- A. Start Terminal from the Accessories window.
- B. Click on Settings/Communications.
- C. Within the Settings/Communications window select the following items:
 - Baud Rate - 9600 (required for FC88 emulation; may be different if CLI is used and instrument setup is otherwise)
 - Data Bits - 8
 - Parity - None
 - Stop Bits - 1
 - Flow Control - Hardware
 - Connector - select the COM port to which the flowmeter is connected
- D. Click OK to exit the Settings/Communications window and click on Settings/Terminal Preferences.
- E. Within the Settings/Terminal Preferences window select the following items:
 - Within Terminal Modes click on Line Wrap and Local Echo
 - Within CR->CR/LF click on Inbound
- F. Click OK to exit the Settings/Terminal Preferences window and click on Settings/Terminal Emulation.
- G. Click DEC VT-52, then click OK to exit the window.

SUBJECT

PROCEDURE

CAGE CODE

64818

DATE

11/6/02

SECTION

PAGE

2 of 2

REVISION

A

H. The setup is complete. If it is desired to clear the display at any time during use, click Edit/Clear Buffer.

4.0 WINDOWS 95 SETUP

The HyperTerminal program is most conveniently used in Windows 95. Outlined below are specific instructions on how to setup and use HyperTerminal. For detailed information on Windows 95 and HyperTerminal, consult HELP or the User's Manual for Windows 95.

- A. Start HyperTerminal from the Accessories/HyperTerminal window. Click on Hypertrm.exe.
- B. In the Connection Description window, click on Cancel. If saving the setup at a later time is desirable, save it through the File/Save As menu.
- C. Click on File/Properties.
- D. In the Phone Number window select the COM port to which the flowmeter is connected through the Connect Using box.
- E. Click on Configure to enter the Port Settings window. Select the following items:
 - Bits per Second - 9600 (required for FC88 emulation; may be different if CLI is used and instrument setup is otherwise)
 - Data Bits - 8
 - Parity - None
 - Stop Bits - 1
 - Flow Control - Hardware
- F. Click on OK to exit the Port Settings window, then enter the Settings window.
- G. In the Settings window select VT52 in the Emulation box.
- H. The setup is complete.